ProX[™] 400

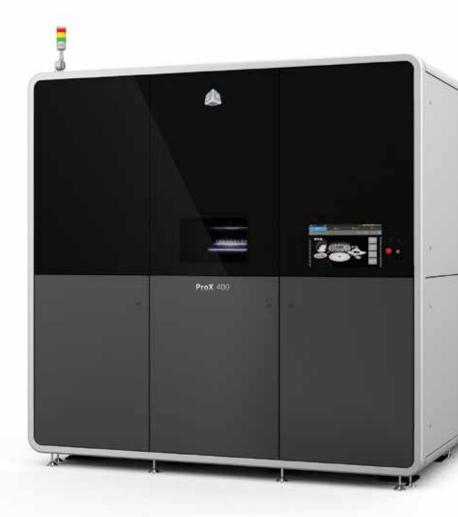


Direct Metal Production 3D Printer

Harness the power of additive manufacturing for metal part and mold production

The ProX™ 400 Direct Metal Printer manufactures high-quality metal parts and high-precision complex molds for demanding high-capacity industrial applications. Large parts (up to 500 x 500 x 500 mm or 19.69 x 19.69 x 19.69 in), or large volumes of smaller parts can be manufactured quickly and economically from a wide range of metal alloys, with no down time between builds. The printed parts are fully dense and have exceptional detail, surface finish and overall accuracy.

The ProX 400 is part of a modular production system that includes automated part cleaning and material recycling for efficient high-volume manufacturing. This system, from the leader in 3D printing, is the ideal way to bring additive metal manufacturing to your factory floor.









www.3dsystems.com

ProX[™] 400



Direct Metal Production 3D Printer

ProX 400

Specifications

Laser power/type 2 Fiber lasers / 2 x 500 W

(1 KW optional)

Laser wavelength 1070 nm

10 um - 100 um Layer thickness range

Build envelope capacity $(X \times Y \times Z)$ 19.7 x 19.7 x 19.7 in

(500 x 500 x 500 mm)

Metal materials Stainless steels, tooling steels,

non-ferrous alloys, super alloys

Repeatability $20 \mu m$

Minimum detail resolution $x, y 100 \mu m / z 20 \mu m$

Space requirements (WxDxH)

Dimensions uncrated

Manufacturing module 118.11 x 118.11 x 118.11 in

(300 x 300 x 300 cm)

98.43 x 98.43 x 98.43 in

(250 x 250 x 250 cm)

Weight uncrated

Power unit

Manufacturing module 30000 lbs (13608 kg) Power unit 10000 lbs (4536 kg)

400 V - 480 V / 3 phases + ground

Compressed air requirements 6-8 bar

Control System & Software

Electrical requirements

Software tools Processing - Manufacturing

Control software **PX Control** STL, IGES, STEP Input data file format

Network type and protocol Ethernet 10/100 RJ45

Accessories Build chamber transfer tool

Certification CF

Print the largest metal parts and tools with the ProX 400

- · New dual-laser and faster layering systems with advanced build strategies significantly improve build speed.
- Patented layering system capable of printing very fine powders and lower-cost, non-spherical powders.
- · Superior part quality, with better surface finish and feature resolution than other metal printers.
- Maintain part accuracy and properties across the full build platform with three-axis dynamic laser movement.
- Modular production system increases capacity with separate automated part cleaning system.
- · Removable build chamber with offline setup and postprocessing, so the printer is dedicated to production.
- · Capable of printing in more than a dozen alloys and ceramics, including stainless steel, aluminum, cobalt chrome, titanium and maraging steel.

3D Systems offers software tools specifically designed to ensure your successful direct metal or ceramic manufacturing process. When it comes to additive manufacturing, the printing system is only one part of the equation. Software integration with the manufacturing process is an important factor when utilizing direct metal 3D printing to produce a more cost-effective workflow in the development and production of new products.

Direct Metal Printing (DMP)

3D Systems' Direct Metal Printing process builds up fully dense, chemically pure metal parts from 3D CAD data by melting fine powder with a laser beam, layer by layer. With layer sizes ranging from 5–30 microns, there are no limitations to part complexity. ProX DMP systems support particle sizes as low as 5 microns, resulting in better part accuracy, surface finish and feature-detail resolution.



Tel: +1 803.326.3900 moreinfo@3dsystems.com

Tel: +44 1442 282 600 info@3dsystems-europe.com Germany, Scandinavia, Eastern Europe, Middle East Tel: +49 6151 357 0 info@3dsystems-europe.com

Asia-Pacific Melbourne Tel: +61 3 9819 4422 Sydney Tel: +61 2 9516 5571 3dprinters.asiapac@3dsystems.com

Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, material combined with, or with end use. 3D Systems makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use.

© 2014 by 3D Systems Inc. All rights reserved. Specifications subject to change without notice. ProX and ProScan are trademarks and SLS, DuraForm, 3D Systems and the 3D Systems logo are registered trademarks of 3D Systems, Inc.